

# Urban Planting Manual

## for Riyadh Green Program



November 2019  
First Edition 2019

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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## Introduction

The Green Riyadh program aims to strategically increase the quality and quantity of vegetation in Riyadh.

The species selection approach for vegetation is driven primarily by environmental criteria. The key objectives of species selection are to:

1. Reduce irrigation demand by selecting vegetation with low water requirements, ideally adapted to the climate conditions of Riyadh.
2. Increase shade trees to promote walking and cycling.

Best practice will improve growing conditions and increase the quality of the trees in the city of Riyadh.

Following these principles, several plants are to be avoided, such as:

- Invasive plants like *Prosopis Julifora*.
- Non-adapted plant species
- Palm trees due to their high water requirements and light canopy that does not provide shade .
- High water requirement plant species or species with aggressive roots, including *Conocarpus*.



shade tree symbol



## Objective

To identify plant species that are suitable for the urban conditions of Riyadh and to highlight the best planting method to achieve sustainability.



## Targeted locations



1. Public service facilities



2. Educational facilities



3. Recreational Facilities

4. Neighborhoods Gardens



5. Street sidewalk,  
roads and parking



6. Factories



7. Natural areas afforestation



## This manual aims to



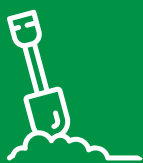
✓ Identify the appropriate place for plantation



✓ Present appropriate planting specifications



✓ Aid proper plant species selection



## I. Guidelines for specifications of urban landscape planting:

1. Design planting specifications.
2. Irrigation requirements.
3. Irrigation requirements.

### 1- Guidelines for specifications of urban landscape planting.

#### a. Tree size:

Determine the size of trees to be planted and classify them as follows:

#### B. Tree spacing:

The spacing between trees (based on trunk to trunk). can be measured by maximum size of crown..

Tree size	Heigh /meters	Crown radius/meters	Trunk thickness/ meters	In between space / meters
Big	More than 10	More than 10	More than 0.5	15-10
Meduim	10-5	10-5	Less than 0.5	10-8
Small	Less than 5	Less than 5	Less than 0.2	8-6

#### C. Grreeing percentage minimum 1 tree for 70 M2 .

Location/	Safety distance / meters
Path way	More than 2
Fence	More than 2
Walk way	More than 0.75
Lighting pole	More than 6

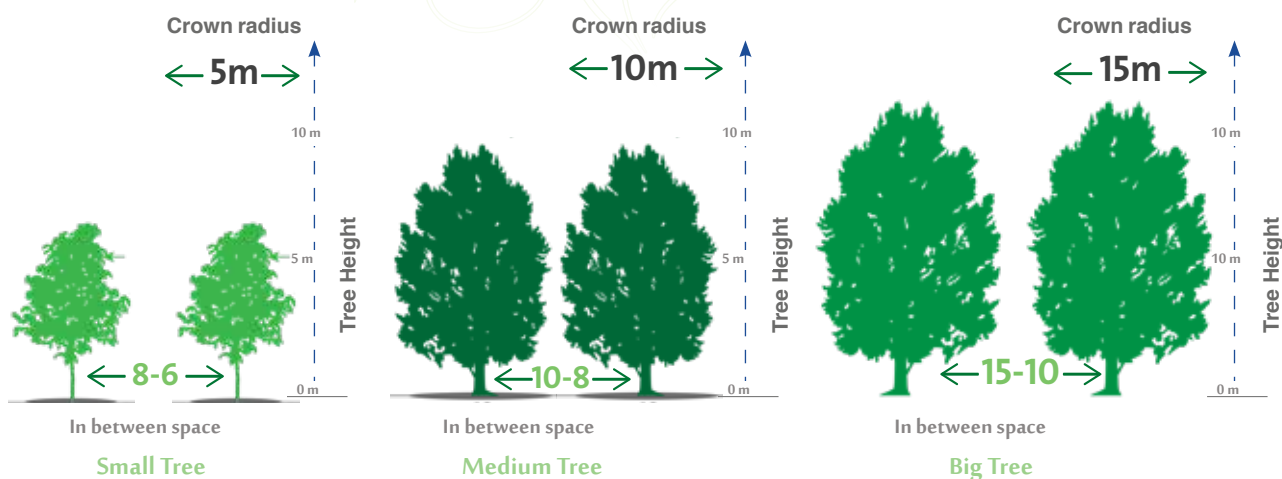


Figure (1) Tree size and spacing distance

#### D. Branching point height :

The distance between ground and the crown branching.

#### E. Supporting and sticking trees:

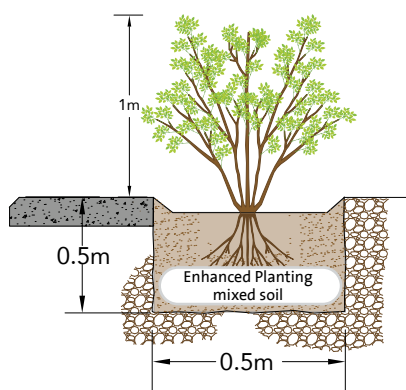
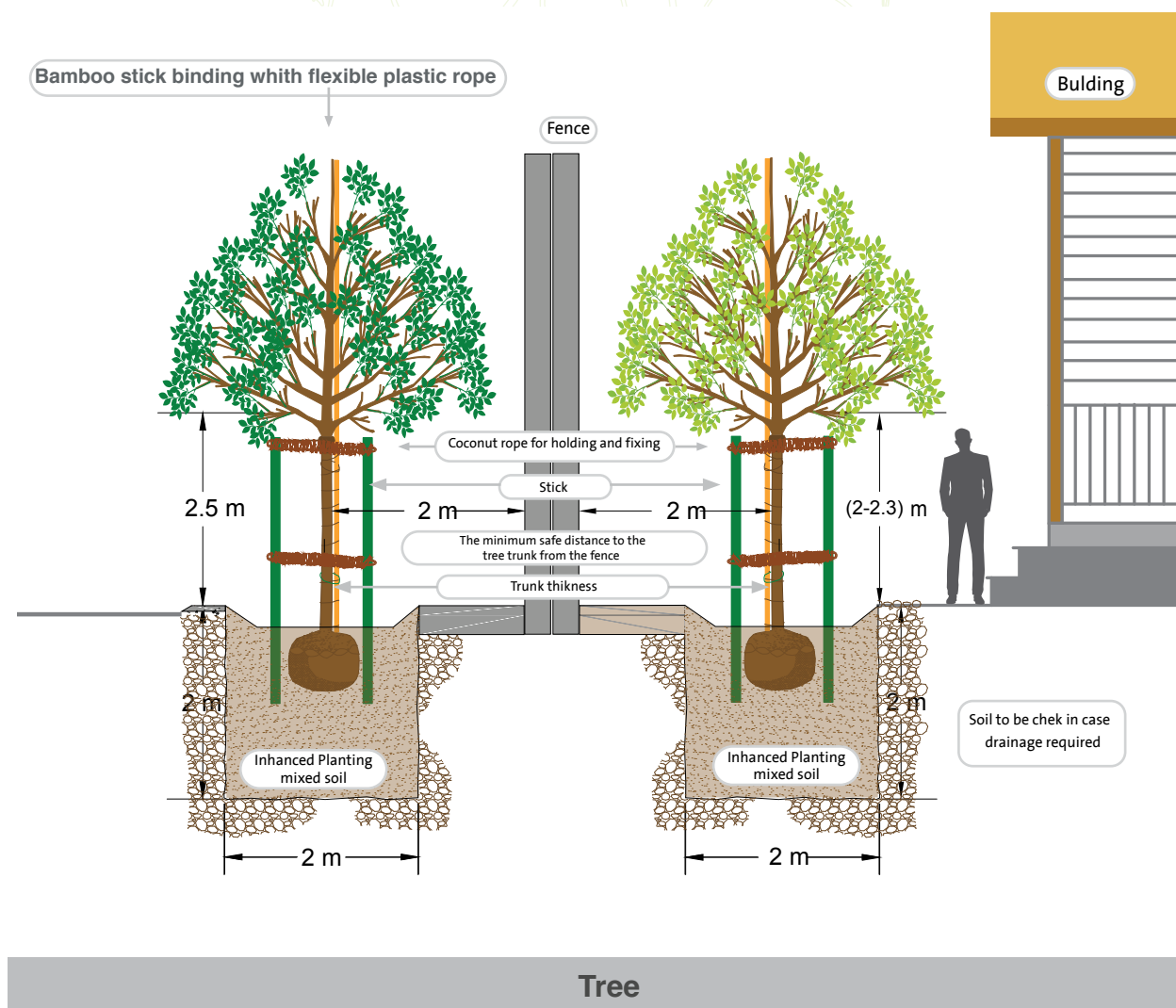
Trees after planting in different location of street or gardens requiring support and correct guidance to protect slanting down according Figure 2

#### F. Tree pit size

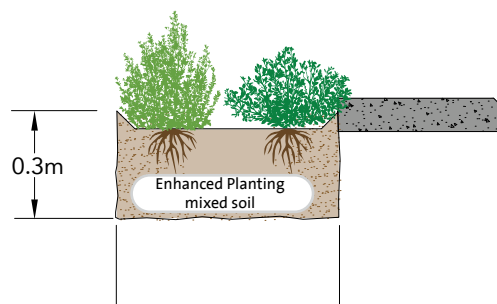
The depths of the tree pit are determined by and size of the tree:

Tree Size	Planting pit Size		
	Length	Width	Depth
Small tree	1.2 m	1.2 m	1.2 m
Big and medium tree	2 m	2 m	2 m
Shrubs	0.5 m	0.5 m	0.5 m
Ground cover	0.3 m	0.3 m	0.3 m





**Shrub**



**Ground cover**

Figure (2) Tree Planting specifications



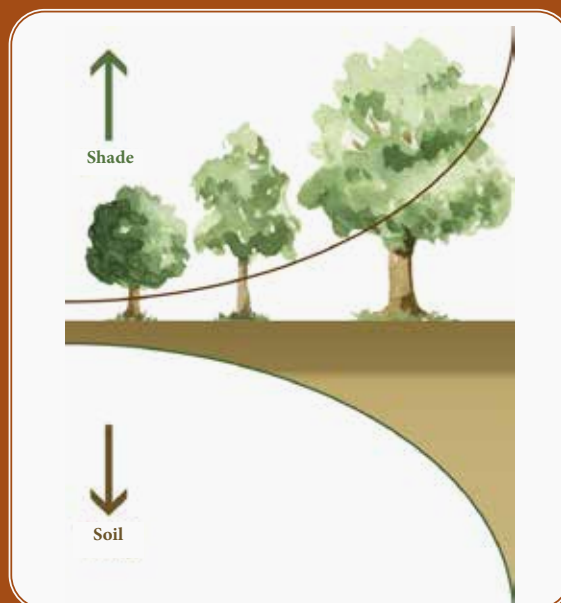
## II. Soil:

A- SOIL SPECIFICATIONS.

B- PLANTING SOIL MIX RECOMMENDATIONS.

### A. SOIL SPECIFICATIONS:

1. If the existing soil is rocky it should be replaced by an appropriate soil for planting.
2. Add nutrients and other components to the soil to enhance the quality of planting soil mix.
3. Soil should be free from weeds (especially invasive ones) and plant roots to reduce future maintenance problems.
4. Soil to be free from big stones.
5. Soil to be free from high salinity elements.
6. A proper planting medium mix.
7. Adequate PH for the planting mix (6-7)

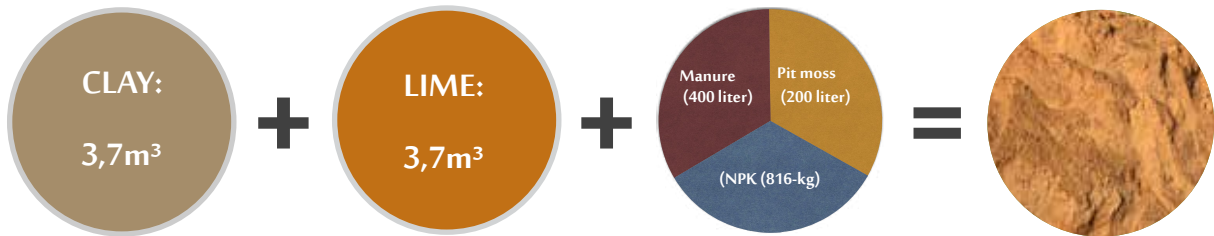


A proper volume of planting soil will improve the growth of the trees

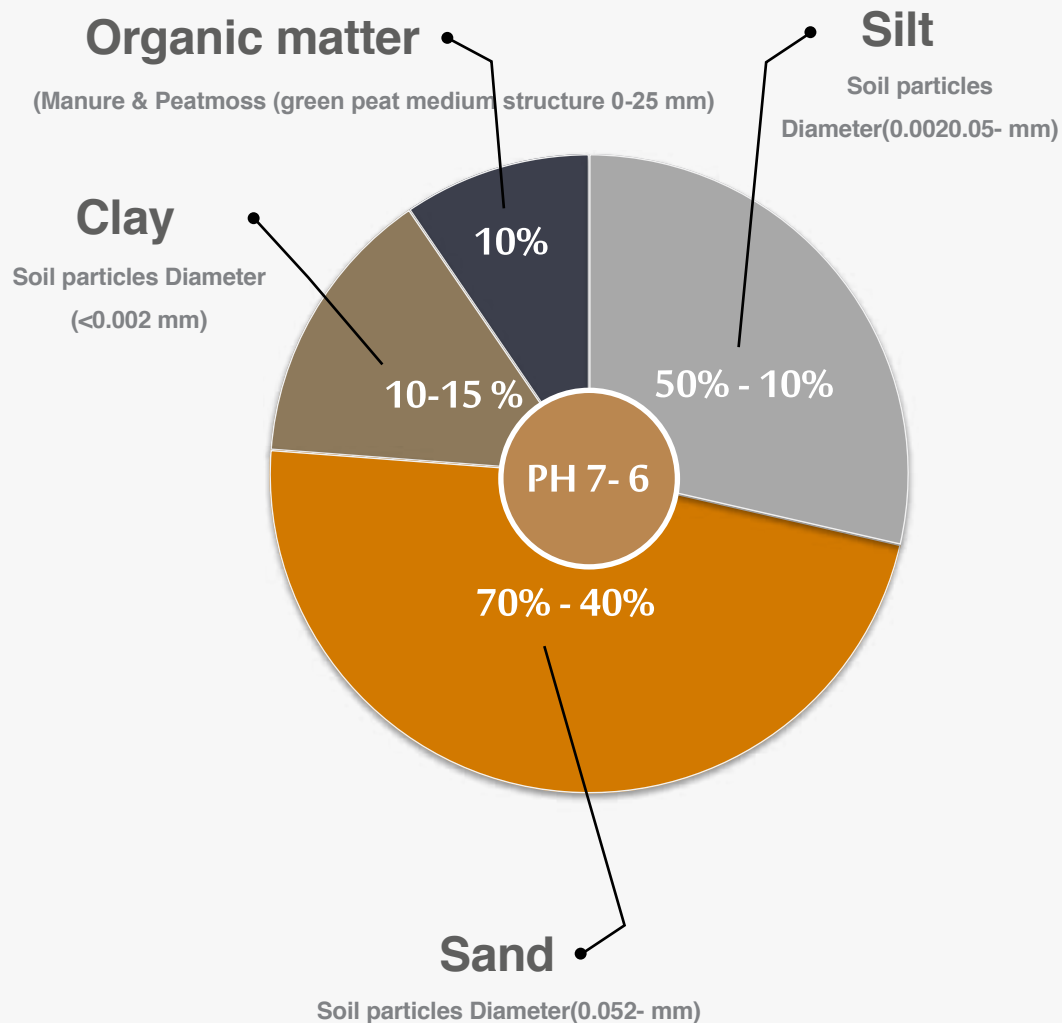
### B. Recommendations for mixing agricultural soil:

1. The site should be clean when the planting mix is placed.
2. On-site the mix of the planting soil required enough water for a proper mixture.
3. If there is a delay in planting, it is recommended to cover the planting medium.
4. Properly treated manure (clean from seeds, fermented, decomposed, etc).
5. Proper pit moss (proper humidity, fermented, decomposed, etc).

Below a sample of 8m<sup>3</sup> of planting medium mix:



### Correct Soil Texture







### III. IRRIGATION REQUIREMENTS:

The water is the major factor in the success of planting, especially during the first year of planting. The irrigation depends on:

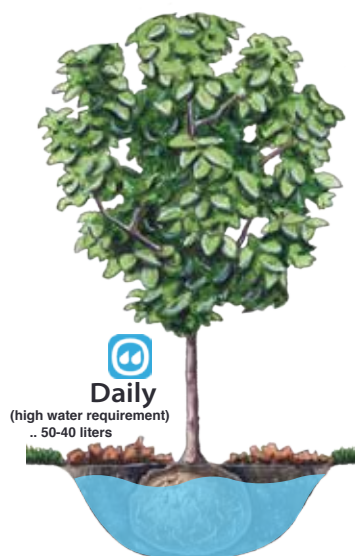
- Water quality. Salinity level < 1500 ppm
- Water quantity.

The water needs will differ depending on the tree species and its age (refer to figure 3).

Item	Plant Type	Qty liter/day
1	Trees	60-50
2	Shrubs	20-15
3	Ground cover /M <sup>2</sup>	12
4	Grass/ M <sup>2</sup>	10

- Irrigation provision - this should be done at sunrise or after sunset.
- Irrigation program. The water requirements should be reduced in the winter to half of the summer quantity.

### Tropical tree species are high water-consumers

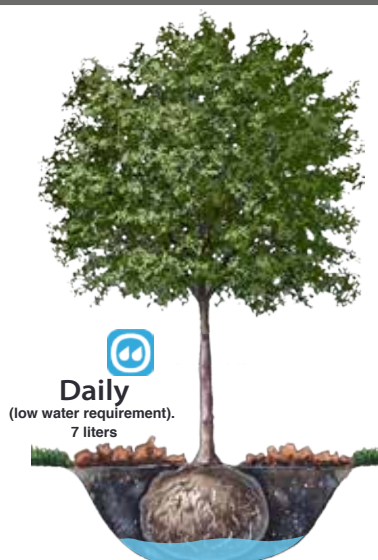


Mature tree more than two years old



New planting trees in site,  
up to two years old

### Sustainable trees with low water needs



Mature tree more than two years old



New planting trees in site,  
up to two years old.

Figure 3: Irrigation Rates of Trees













## IV. PLANTING SELECTION:

Proper planting selection is crucial for a sustainable landscape that is adapted to the local climate.

### GREEN RIYADH PROGRAM VEGETATION LEGEND:

GREEN RIYADH PROGRAM VEGETATION LEGEND			
	HIGH	MEDIUM	LOW
WATER REQUIREMENTS			
SIZE	LARGE 	MEDIUM 	SMALL 
FLOWERING	DENSE FLOWERING 	MEDIUM FLOWERING DENSITY 	NO FLOWER 
SALINITY	RESISTANT 	TOLERANT 	SENSITIVE 
SUNLIGHT EXPOSURE	FULL SUN 	PARTIAL SUN 	SHADE 
GROWTH RATE	HIGH 	MEDIUM 	SLOW 
	SENSITIVE 		
SUSTAINABILITY	SUSTAINABILITY 	Drought tolerant plants that can survive without water supply after two years of irrigation water	
SPIKY PLANTS		Spiky plants	
UTILITIES AFFECTED BY ROOTS		Utilities affected by roots	

	Green	speckled	Silver	Red ...
color of the leaves				

	M	S
The right site for use in design		PRIVATE GARDENS The open spaces within the courtyards of houses/housing
		ROADS The road space includes all the road elements as the median, side-median, Sidewalks, intersections and roundabouts.
		NATURAL OPEN SPACE AREAS The road space includes all the road elements as the median, side-median, Sidewalks, intersections and roundabouts.
		URBAN OPEN SPACE AREAS Urban open spaces include all type of gardens and parks around the city as city parks, and neighborhood parks
		CAR PARKING Any car parking type around the city.
		CLOVERLEAF / INTERCHANGES Any kind of junction around the city.

## I - TREES

1

**Scientific Name: *Acacia ampliceps***

الاسم العربي: سنط ملحي



2

**Scientific Name: *Acacia aneura***

الاسم العربي: سنط مولقا



3

**Scientific Name: *Acacia coriacea***

الاسم العربي: سنط كوريشيا



4

**Scientific Name: *Acacia ehrenbergiana***

الاسم العربي: السلم



5

**Scientific Name: *Acacia farnesiana***

الاسم العربي: سنط الفتنة



6

**Scientific Name: *Acacia gerrardii***

الاسم العربي: طاح نجدى





**Scientific Name:** *Acacia nilotica*



**Scientific Name:** *Acacia pruincarpa*

A large, mature tree with dense, green, feathery foliage, likely a Mimosa biuncifera, standing in a dry, open field. The tree has a thick, light-colored trunk and many branches. The ground is dry and sandy, with some other vegetation visible in the background.



**Scientific Name:** *Acacia salicina*



**Scientific Name:** *Acacia seyal*



**Scientific Name:** *Acacia radiana*



**Scientific Name:** *Acacia tortilis* *spirocarpa*





13

**Scientific Name: *Acacia victoriae***

الاسم العربي: سنط انيق



14

**Scientific Name: *Acacia xanthophloea***

الاسم العربي: طلح فيفر / الحمى



15

**Scientific Name: *Albizia lebbeck***

الاسم العربي: ليخ



16

**Scientific Name: *Azdearchta indica***

الاسم العربي: نيم



17

**Scientific Name: *Balanites aegyptiaca***

الاسم العربي: هجليج / لالوب



18

**Scientific Name: *Brachychiton populneus***

الاسم العربي: براكيكيتون

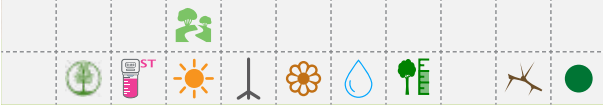




19

Scientific Name: *Capparis decidua*

الاسم العربي: تنضب



20

Scientific Name: *Celtis reticulata*

الاسم العربي: الميس الغربي



21

Scientific Name: *Ceratonia siliqua*

الاسم العربي: خرنوب



22

Scientific Name: *Cercidium floridum*

الاسم العربي: سرسيديوم



23

Scientific Name: *Cordia myxa*

الاسم العربي: البنبر / المخيط



24


Scientific Name: *cordia sebestena*

الاسم العربي: كورديا






**25** *Scientific Name: Delbergia sisso*  
الاسم العربي: سرسوع





**26** *Scientific Name: Delonix regia*  
الاسم العربي: بونسيانا





**27** *Scientific Name: Ficus altissima*  
الاسم العربي: تين العالي





**28** *Scientific Name: Ficus benghalensis*  
الاسم العربي: التين البنغالي




**29** *Scientific Name: Ficus religiosa*  
الاسم العربي: تين لسان العصفور




**30** *Scientific Name: Ficus salicifolia*  
الاسم العربي: تين الصفصافي

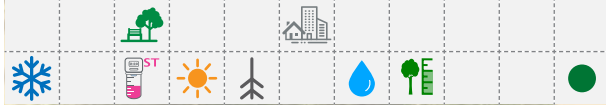





31

**Scientific Name: *Limonia acidissima***

الاسم العربي: تفاح الخشب



32

**Scientific Name: *Maerua crassifolia***

الاسم العربي: سرح



33

**Scientific Name: *Melia azedarach***

الاسم العربي: زلزلة / الأزدرخت



34

**Scientific Name: *Millettia pinnata***

الاسم العربي: زان الهندي / بونغاميا



35

**Scientific Name: *Moringa oleifera***

الاسم العربي: مورينقا / الشوع



36

**Scientific Name: *Moringa peregrina***

الاسم العربي: بان عربي / اليسر





**Scientific Name:** *Olea europaea*



**Scientific Name:** *Olneya tesota*



**Scientific Name: *Parkinsonia Aculeata***



**Scientific Name:** *Pithecellobium dulce*

A photograph of a large, dense, green tree in a dry, open landscape. The tree is the central focus, with a thick canopy of green leaves. In the background, there are several other smaller trees and a clear sky. The ground is dry and sandy, with some low-lying vegetation in the foreground.



**Scientific Name:** *Pittosporum tobira*



**Scientific Name:** *Prosopis cineraria*

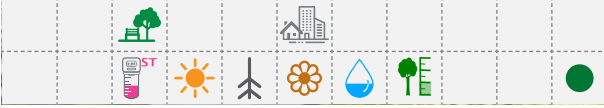
A large, mature weeping willow tree with dense, green, drooping foliage, standing in front of a light-colored building. The tree's branches are heavily laden with leaves, creating a thick canopy. The building behind it has a light-colored facade and several windows. The sky is blue with some light clouds.



43

**Scientific Name: *Schinus Molle***

الاسم العربي: فلفل رفيع الأوراق



44

**Scientific Name: *Schinus terebinthifolius***

الاسم العربي: فلفل عريض الأوراق



45

**Scientific Name: *Terminalia catappa***

الاسم العربي: لوز حساوي



46

**Scientific Name: *Terminalia ivorensis***

الاسم العربي: ترميناليا





47

Scientific Name: *Thespesia populnea*

الاسم العربي: ثيسبشيا (الختمى)



48

Scientific Name: *Ziziphus nummularia*

الاسم العربي: السدر البري



49

Scientific Name: *Ziziphus spina-christi*

الاسم العربي: سدر بلدي



الرياض الخضراء  
GREEN RIYADH

## 2 - SHRUB

1

**Scientific Name: *Acacia cowleana***

الاسم العربي: سنط كولينا



2

**Scientific Name: *Acacia cuthbertsonii***

الاسم العربي: سنط فضي



3

**Scientific Name: *Acacia kempeana***

الاسم العربي: سنط كمبيانا



4

**Scientific Name: *Acacia sclerosperma***

الاسم العربي: سنط سكلوسبرما



5

**Scientific Name: *Acalypha hispida***

الاسم العربي: ذيل القط الأحمر



6

**Scientific Name: *Acalypha wilkesiana***

الاسم العربي: شجيرة النحاس





**Scientific Name:** *Atriplex halimus*



**Scientific Name:** *Atriplex leucoclada*



**Scientific Name:** *Bougainvillea dwarf*

A large, dense bush of flowering plants, likely bougainvillea, with bright pink or magenta blossoms and green foliage, growing along a sidewalk.



**Scientific Name:** *Bougainvillea spectabilis*

A large, dense bush of bright pink flowers, likely a Bougainvillea, in a garden setting. The flowers are numerous and vibrant, covering most of the bush. The leaves are green and visible through the flowers. In the background, there is a building with a light-colored facade and some other greenery.

**Scientific Name:** *Caesalpinia gilliesii*

A large, bushy plant with many small yellow flowers, identified as Mimulus aurantiacus, growing in a garden. The plant has green foliage and numerous bright yellow blossoms. In the background, a white house and other garden plants are visible.



**Scientific Name:** *Caesalpinia pulcherrima*

A large, dense bush of Mimulus aurantiacus (orange monkey flower) with numerous bright orange flowers and green foliage, growing against a brick wall.





13

Scientific Name: *Calligonum comosum*

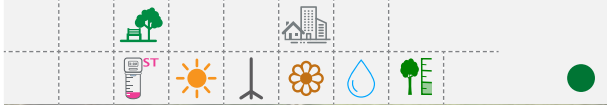
الاسم العربي: الأترطى



14

Scientific Name: *Callistemon viminalis*

الاسم العربي: فرشاة الزجاج



15

Scientific Name: *Capparis spinosa*

الاسم العربي: لصف شفلح



16

Scientific Name: *Cassia Glauca*

الاسم العربي: كاسيا جلوكا



17

Scientific Name: *Cassia Nemophila*

الاسم العربي: كاسيا نيموفيل



18

Scientific Name: *Cestrum nocturnum*

الاسم العربي: ملكة الليل





19

**Scientific Name: *Chilopsis linearis***

الاسم العربي: صفصاف الصحراء



20

**Scientific Name: *Citharexylum Quadrangulare***

الاسم العربي: السندروس



21

**Scientific Name: *Clerodendrum inerme***

الاسم العربي: الياسمين الزفر



22

**Scientific Name: *Dodonea viscosa***

الاسم العربي: دودونيا الشت



23

**Scientific Name: *Duranta aurea***

الاسم العربي: ديورنتا ذهبي



24

**Scientific Name: *Duranta repens***

الاسم العربي: ديورنتا اخضر





25

**Scientific Name: *Duranta variegata***

الاسم العربي: ديورنتا مبرقشة



26

**Scientific Name: *Encelia farinosa***

الاسم العربي: انسيليأ الشجيرة الهشة



27

**Scientific Name: *Ephedra aphylla***

الاسم العربي: العلندة



28

**Scientific Name: *Euonymus japonicus***

الاسم العربي: المرجان الياباني



29

**Scientific Name: *Grevillea robusta***

الاسم العربي: جرافيليا



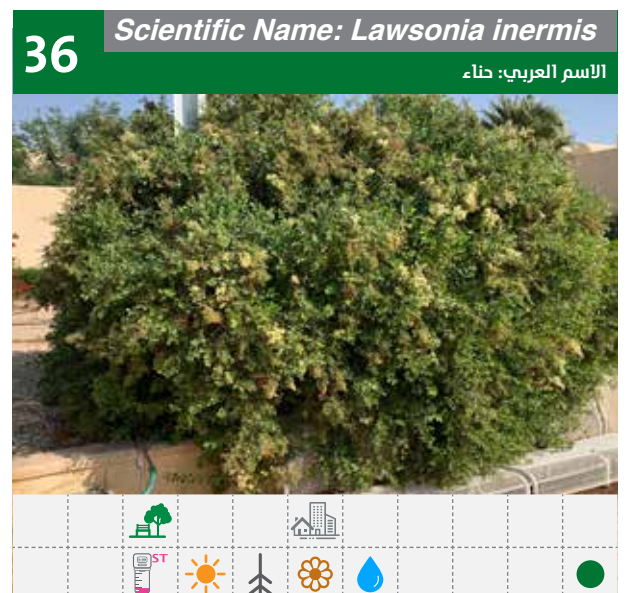
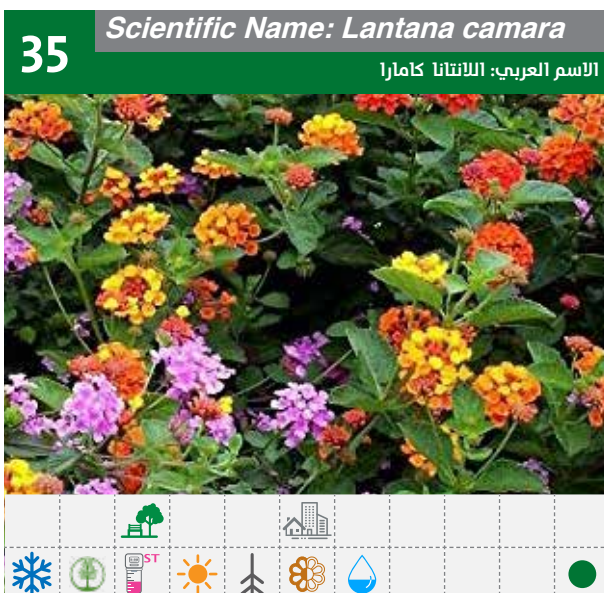
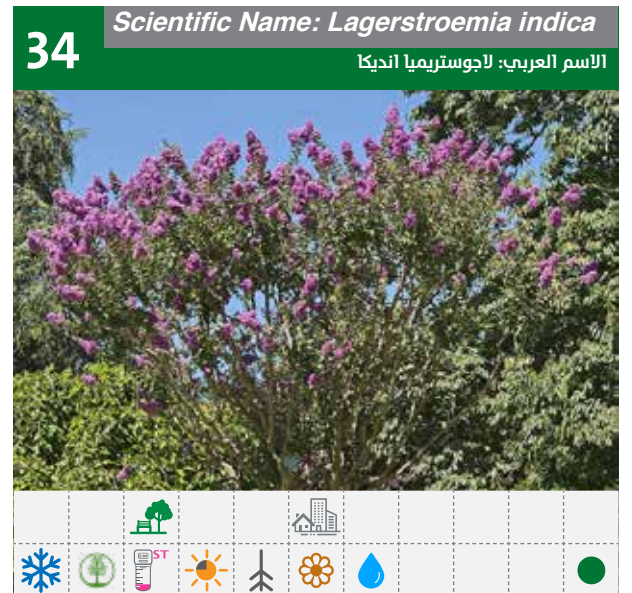
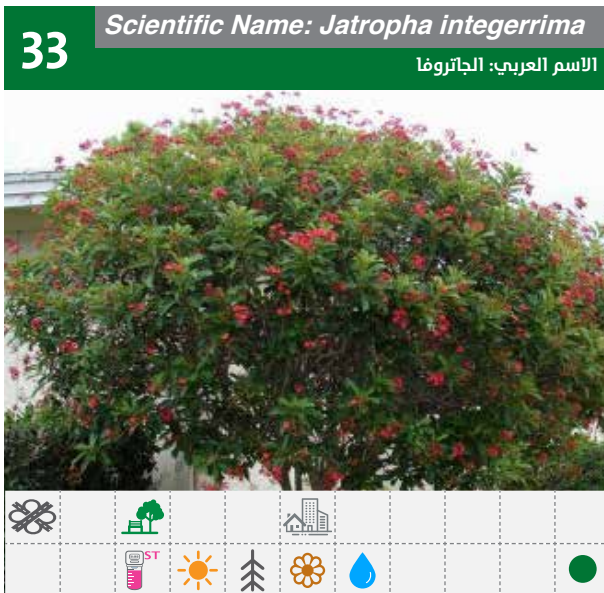
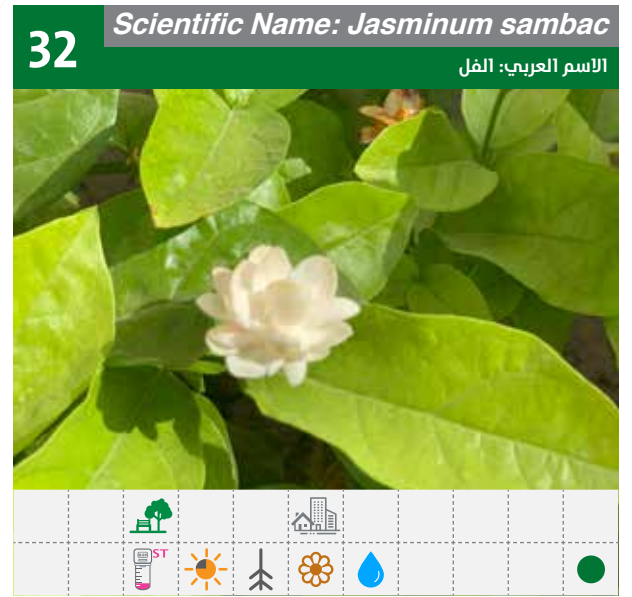
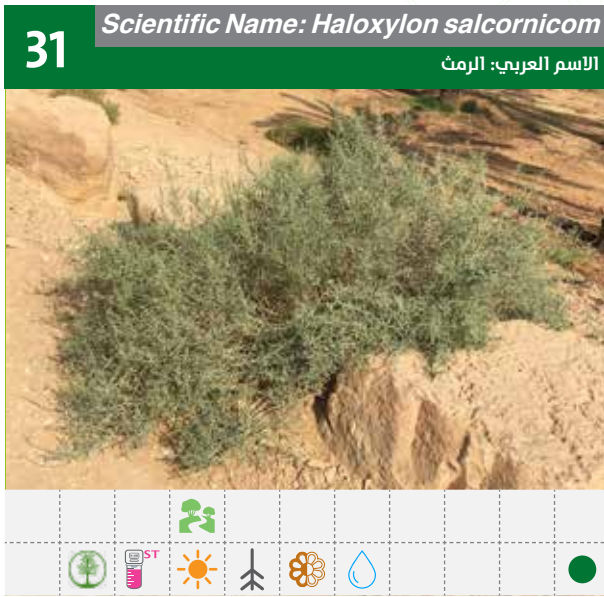
30

**Scientific Name: *Haloxylon persicum***

الاسم العربي: الغضا









37

Scientific Name: *Leucophyllum frutescens*

الاسم العربي: ليكوفيليوم



38

Scientific Name: *Leptadenia pyrotechnica*

الاسم العربي: المرخ



39

Scientific Name: *Myrtus communis*

الاسم العربي: الآس



40

Scientific Name: *Nerium oleander*

الاسم العربي: الدفلة



41

Scientific Name: *Plumeria obtusa*

الاسم العربي: الياسمين الهندي



42

Scientific Name: *Rhanterium papposum*

الاسم العربي: العرفج

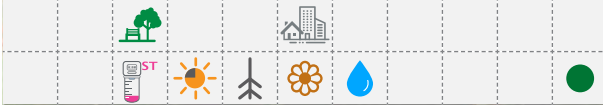




43

**Scientific Name: *Russelia equisetiformis***

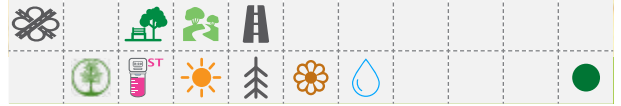
الاسم العربي: مرجان



44

**Scientific Name: *Salvadora persica***

الاسم العربي: الأراك



45

**Scientific Name: *Senna artemisioides***

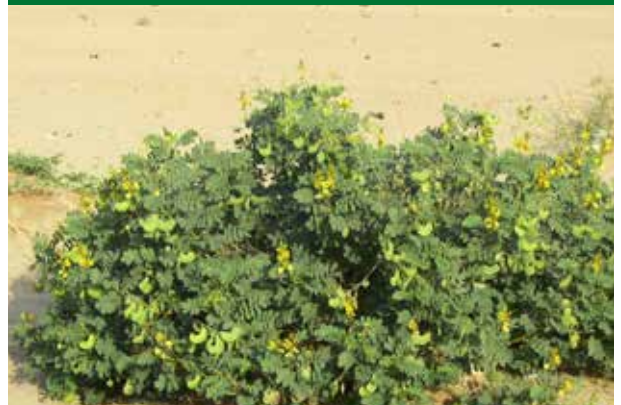
الاسم العربي: السنّا الفضي



46

**Scientific Name: *Senna italica***

الاسم العربي: العشرق



47

**Scientific Name: *Senna occidentalis***

الاسم العربي: السنّا الغربي



48

**Scientific Name: *Senna phyllodinea***

الاسم العربي: السنّا الفضي قزمي





**Scientific Name:** *Tecoma stans*

A large, dense bush of yellow flowers, likely Mimulus aurantiacus, with many bright yellow blossoms and green foliage. The flowers are numerous and clustered together, creating a vibrant yellow display against the dark green leaves. The background is slightly blurred, showing a fence and some trees.

**Scientific Name:** *Tecomaria capensis*

A photograph of a large, dense bush of orange flowers, likely Canna lilies, with green foliage. The flowers are bright orange and have a trumpet-like shape. The leaves are dark green and broad. The background is slightly blurred, showing more greenery and a hint of a building or fence.



**Scientific Name:** *Thevetia peruviana*



**Scientific Name:** *Vitex agnus-castus*

A large, bushy plant with numerous small, purple, bell-shaped flowers, identified as Salvia leucantha, growing in front of a light-colored building. The plant is dense and fills most of the frame, with its flowers in various stages of bloom. The background shows a portion of a building with a light-colored wall and a dark doorway or window on the left.



**Scientific Name:** *Vitex trifolia purpurea*



**Scientific Name:** *Vitex trifolia variegata*

A close-up photograph of a plant with variegated leaves, showing green and white patches. The leaves are broad and ovate, with prominent white variegation along the edges and veins. The plant appears to be a shrub or small tree, with several leaves visible in the foreground and background. The lighting is bright, highlighting the texture and color of the foliage.





### 3 - CLIMBERS

1

**Scientific Name: Antigonon leptopus**

الاسم العربي: انتيجنون- المرجان المتسلق



2

**Scientific Name: Argyreia nervosa**

الاسم العربي: الفيل الزاحف- سلك التلفون



3

**Scientific Name: Bougainvillea glabra**

الاسم العربي: الجهنمية



4

**Scientific Name: Clerodendrum splendens**

الاسم العربي: طربوش الملك



5

**Scientific Name: jacquemontia pentantha**

الاسم العربي: الكتلة الزرقاء



6

**Scientific Name: Jasminum officinale**

الاسم العربي: الياسمين البلدي





7

**Scientific Name: *Jasminum polyanthum***

الاسم العربي: الياسمين الوردي



8

**Scientific Name: *Quisqualis indica***

الاسم العربي: الياسمين الأحمر- الهندى



9

**Scientific Name: *Senecio confusus***

الاسم العربي: الكرمة المكسيكية





## 4 - GROUND COVER

1

**Scientific Name:** *Alternanthera versicolor*

الاسم العربي: التيرناتيرا



2

**Scientific Name:** *Aptenia cordifolia*

الاسم العربي: زهرة الشمس



3

**Scientific Name:** *Anvillea garcini*

الاسم العربي: نقد



4

**Scientific Name:** *Artemisia sieberi*

الاسم العربي: الشيح



5

**Scientific Name:** *Asparagus densiflorus*

الاسم العربي: زهر الهواء الخشن



6

**Scientific Name:** *Canna indica*

الاسم العربي: كانا





**Scientific Name:** *Carissa green carpet*

### الاسم العربي: كاريسا



**Scientific Name:** *Carissa grandiflora*

الاسم العربي: كاريسا



**Scientific Name:** *Gazania leucolaena*

## الاسم العربي: الجازانيا الد صنف لوكلاينا



**Scientific Name:** *Ipomea palmata*

الاسم العربي: ايووما بالماتا



**Scientific Name:** *Ipomea pes caprae*

### الاسم العربي: ايوما ظلف الماعز



**Scientific Name:** *Iresine herbstii*

### الاسم العربي: اريسين





**Scientific Name:** *Lampranthus aureus*

A close-up photograph of a vibrant orange and yellow flower, likely a Sea Purslane (Portulaca oleraceae), with thick, green, succulent-like leaves. The flower has many narrow, pointed petals radiating from a bright yellow center. The surrounding foliage consists of thick, green, rounded leaves, some of which are showing signs of being eaten, with small holes visible.



**Scientific Name:** *Limoniastrum monopetalum*

A large, dense, green shrub or small tree with a thick, brown trunk, growing next to a paved area. The plant has many small, bright green leaves and is situated on a light-colored, textured ground surface.



**Scientific Name:** *Osteospermum fruticosum*

A close-up photograph of a dense patch of flowers, including white daisies and magenta/pink flowers, growing in a green field. The flowers are in various stages of bloom, and the background is a lush green field.

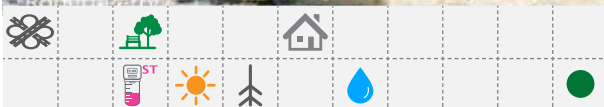


**Scientific Name:** *Portulaca*



**Scientific Name:** *Rosmarinus officinalis*

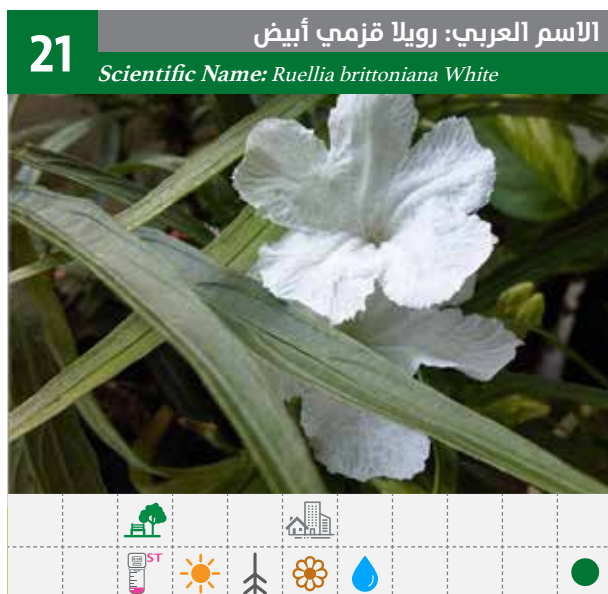
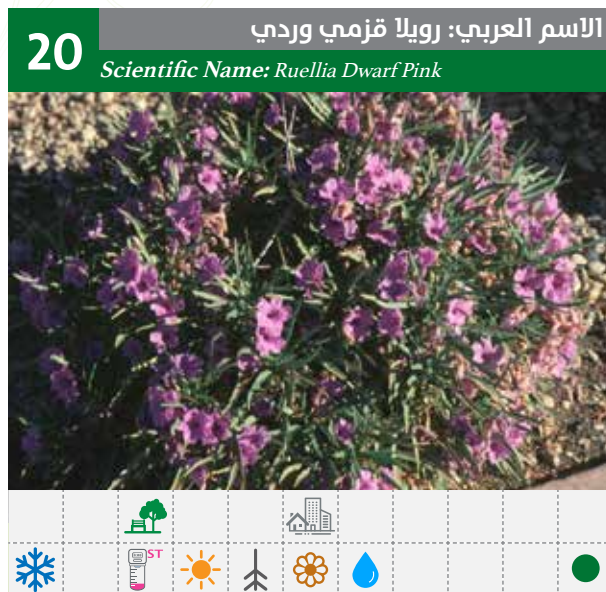
A large, dense, green, weeping plant, likely a cypress, cascading over a stone wall. The plant has a thick, woody trunk and numerous fine, needle-like leaves that create a lush, green curtain effect. It is growing over a light-colored, textured stone wall. The background is a clear blue sky.

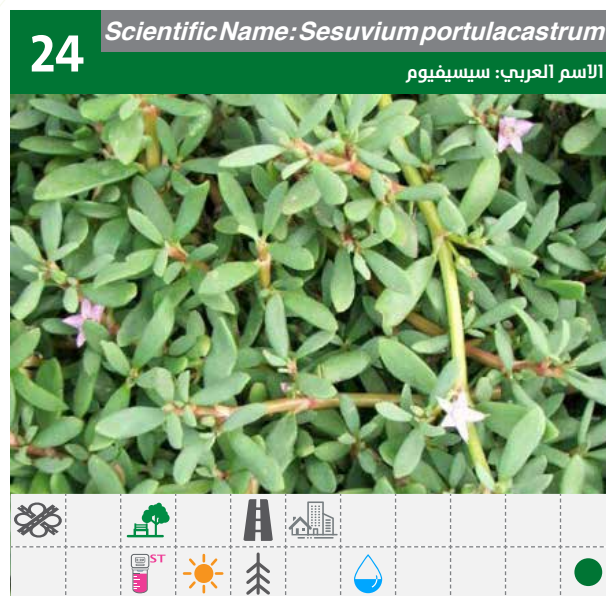


**Scientific Name:** *Ruellia brittoniana*











## 5 - Herbs

1

**Scientific Name:** *Crinum asiaticum*

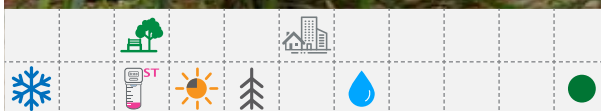
الاسم العربي: زنبق اسيوي



2

**Scientific Name:** *Cymbopogon citratus*

الاسم العربي: حشيشة الليمون



3

**Scientific Name:** *Lasiurus sindicus*

الاسم العربي: الضعة



4

**Scientific Name:** *Pandanus sanderi*

الاسم العربي: الكادي





**Scientific Name:** *Panicum turgidum*

### الاسم العربي: الثمام



**Scientific Name: *Pennisetum Rubra***

### الاسم العربي: الحلفا احمر



**Scientific Name:** *Pennisetum Setaceum*


## الاسم العربي: الحلفا اخضر



		<b>Trees recommended for Roads</b>
Item	Arabic Name	Scientific Name
1	سنط ملحي	<i>Acacia ampliceps</i>
2	طلح مولقا	<i>Acacia aneura</i>
3	طلح نجدي	<i>Acacia gerardii</i>
4	طلح نيلي	<i>Acacia nilotica</i>
5	سنط قنديلي	<i>Acacia pruincarpa</i>
6	سمر الرديانا	<i>Acacia tortilis raddiana</i>
7	هجليج/ لالوب	<i>Balanites aegyptiaca</i>
8	كاسيا جلوكا	<i>Cassia glauca</i>
9	سيرسيديوم	<i>Cercidium floridum</i>
10	سرسوع	<i>Delbergia sisso</i>
11	تين صفصافي	<i>Ficus salicifolia</i>
12	زان هندي/ بونغاميا	<i>Millettia pinnata</i>
13	بان العربي/ يسر	<i>Moringa peregrina</i>
14	الحديد الصحراوي	<i>Olneya tesota</i>
15	غاف (الرمادي)	<i>Prosopis cineraria</i>
16	ترميناليا	<i>Terminalia ivorensis</i>
17	سدر بلدي	<i>Ziziphus spina-christi</i>

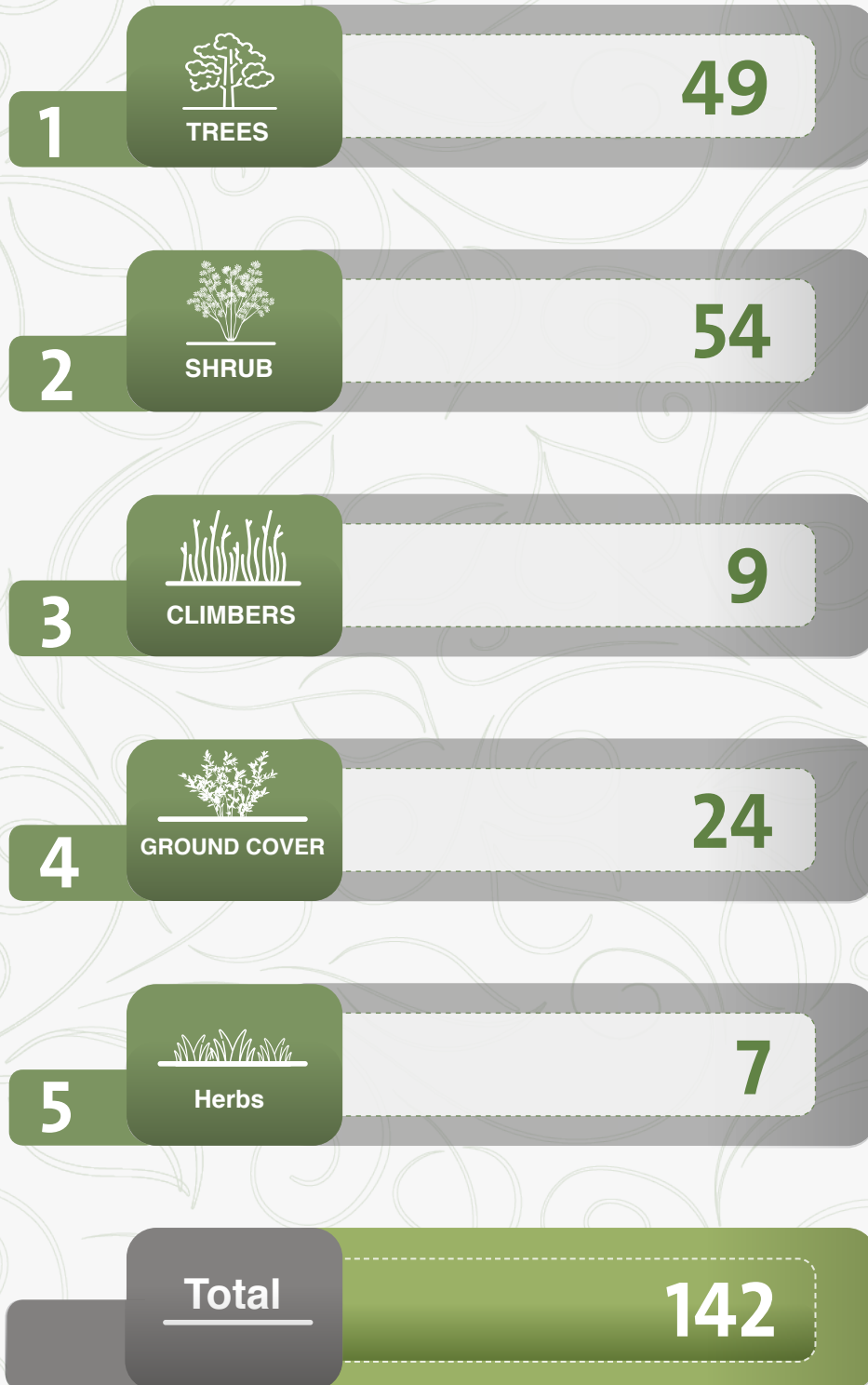
		<b>Shrubs recommended for Roads</b>
Item	Arabic Name	Scientific Name
1	القطف	<i>Atriplex halimus</i>
2	الجهنمية	<i>Bougainvillea glabra</i>
3	الجهنمية	<i>Bougainvillea spectabilis</i>
4	سيزالبينيا احمر	<i>Caesalpinia pulcherrima</i>
5	كاسيا جلوكا	<i>Cassia Glauca</i>
6	كاسيا نيموفيل	<i>Cassia Nemophila</i>
7	دودونيا الشث	<i>Dodonea viscosa</i>
8	الشجيرة الهشة	<i>Encelia farinosa</i>
9	ليكوفيلليوم	<i>Leucophyllum frutescens</i>
10	الدفلة	<i>Nerium oleander</i>
11	الأراك	<i>Salvadora persica</i>
12	السنا الفضي	<i>Senna artemisioides</i>
13	التيكوما الصفراء	<i>Tecoma stans</i>
14	التيكوماريا	<i>Tecomaria capensis</i>
15	كف مريم	<i>Vitex agnus-castus</i>
16	كف مريم أحمر	<i>Vitex trifolia purpurea</i>
17	كف مريم مبرفش	<i>Vitex trifolia variegata</i>



		<b>Ground-cover and Grass recommended for Roads</b>
Item	Arabic Name	Scientific Name
1	الجازانيا الفضي صنف لوكلاينا	<i>Gazania leucolaena</i>
2	ايبوما ظلف المعاز	<i>Ipomea pes caprae</i>
3	ايبوما بالماتا	<i>Ipomea palmata</i>
4	ليمونيستروم	<i>Limoniastrum monopetalum</i>
5	الحلفا احمر	<i>Pennisetum Rubra</i>
6	الحلفا اخضر	<i>Pennisetum Setaceum</i>
7	رويليا بنفسجي	<i>Ruellia brittoniana</i>
8	الدلب - سيسيفيوم	<i>Sesuvium portulacastrum</i>



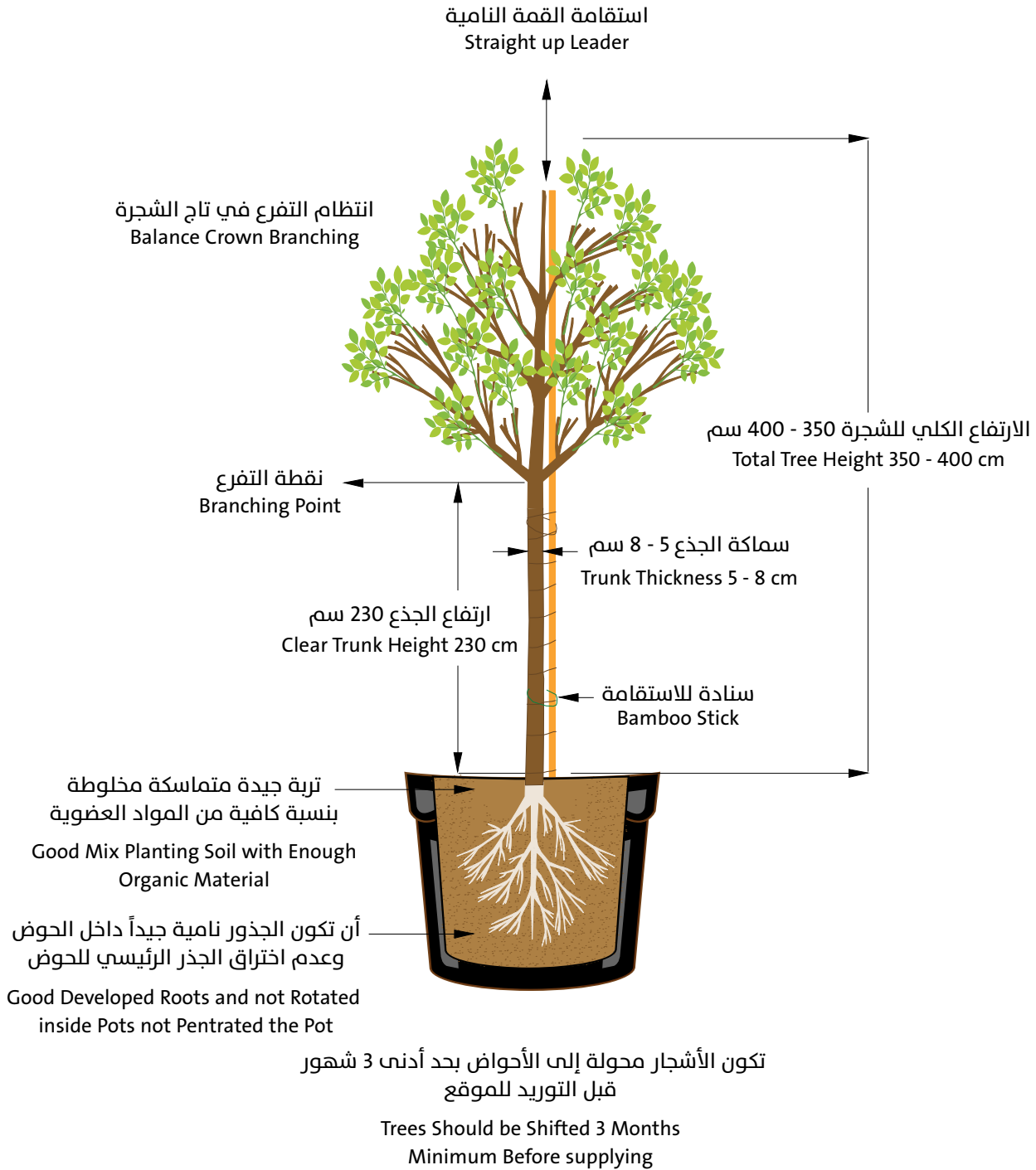
## Total Plant Varieties of Urban Planting Manual







## V. Typical trees for nurseries













































































































































































































## VI. Quick legend


























































### I - TREES

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
T001	16	سنط ملحي	<i>Acacia ampliceps</i>	●			
T002	16	سنط مولقا	<i>Acacia aneura</i>	●			
T003	16	سنط كوريشيا	<i>Acacia coriacea</i>	●			
T004	16	السلم	<i>Acacia ehrenbergiana</i>	●			
T005	16	سنط الفتنة	<i>Acacia farnesiana</i>	●			
T006	16	طلح نجدي	<i>Acacia gerrardii</i>	●			
T007	17	طلح نيلي	<i>Acacia nilotica</i>	●			
T008	17	سنط قنديلي	<i>Acacia pruincarpa</i>	●			
T009	17	طلح صفصافي	<i>Acacia salicina</i>	●			
T010	17	طلح سيال	<i>Acacia seyal</i>	●			
T011	17	سمر الرديانا	<i>Acacia tortilis raddiana</i>	●			
T012	17	سمر الحطب	<i>Acacia tortilis spirocarpa</i>	●			
T013	18	سنط انيق	<i>Acacia victoriae</i>	●			
T014	18	طلح فيفر / الحمى	<i>Acacia xanthophloea</i>	●			
T015	18	لبخ	<i>Albizia lebbeck</i>	●			
T016	18	نيم	<i>Azdearchta indica</i>	●			
T017	18	هجليج / لالوب	<i>Balanites aegyptiaca</i>	●			
T018	18	براكيكتون	<i>Brachychiton populneus</i>	●			
T019	19	التنضب	<i>Capparis decidua</i>	●			
T020	19	الميس الغربي	<i>Celtis reticulata</i>	●			
T021	19	خرنوب	<i>Ceratonia siliqua</i>	●			
T022	19	سيرسيديوم	<i>Cercidium floridum</i>	●			
T023	19	البنبر / المخيط	<i>Cordia myxa</i>	●			
T024	19	كورديا	<i>Cordia sebestena</i>	●			















































































































































































Plant info							Location						
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS							
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
















































































## I - TREES

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
T025	20	سرسوع	<i>Delbergia sisso</i>	●			
T026	20	بونسيانا	<i>Delonix regia</i>	●			
T027	20	تين عالي	<i>Ficus altissima</i>	●			
T028	20	التين البنغالي	<i>Ficus benghalensis</i>	●			
T029	20	تين لسان العصفور	<i>Ficus religiosa</i>	●			
T030	20	تين صفصافي	<i>Ficus salicifolia</i>	●			
T031	21	تفاح الخشب	<i>Limonia acidissima</i>	●			
T032	21	سرح	<i>Maerua crassifolia</i>	●			
T033	21	ززلخت/ أزدرخت	<i>Melia azedarach</i>	●			
T034	21	زان هندي/ بونغاميا	<i>Millettia pinnata</i>	●			
T035	21	مورينقا/ شوع	<i>Moringa oleifera</i>	●			
T036	21	بان العربي/ يسر	<i>Moringa peregrina</i>	●			
T037	22	زيتون	<i>Olea europaea</i>	●			
T038	22	الحديد الصحراوي	<i>Olneya tesota</i>	●			
T039	22	باركينسونيا	<i>Parkinsonia Aculeata</i>	●			
T040	22	لوز هندي	<i>Pithecellobium dulce</i>	●			
T041	22	الحبض	<i>Pittosporum tobira</i>	●			
T042	22	غاف الرمادي	<i>Prosopis cineraria</i>	●			
T043	23	فلفل رفيع الأوراق	<i>Schinus Molle</i>	●			
T044	23	فلفل عريض الأوراق	<i>Schinus terebinthifolius</i>	●			
T045	23	لوز حساوي	<i>Terminalia catappa</i>	●			
T046	23	ترميناليا	<i>Terminalia ivorensis</i>	●			
T047	24	ثيسبشيا (الختمي)	<i>Thespesia populnea</i>	●			
T048	24	السدر البري	<i>Ziziphus nummularia</i>	●			
T049	24	سدر بلدي	<i>Ziziphus spina-christi</i>	●			























































































































































































Plant info							Location						
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS							
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													

## 2 - SHRUB

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
S001	25	سنت كولينا	<i>Acacia cowleana</i>				
S002	25	سنت فضي	<i>Acacia cuthbertsonii</i>				
S003	25	سنت كمبيانا	<i>Acacia kempeana</i>				
S004	25	سنت سكوسبرما	<i>Acacia sclerosperma</i>				
S005	25	ذيل القط الأحمر	<i>Acalypha hispida</i>				
S006	25	شجيرة النحاس	<i>Acalypha wilkesiana</i>				
S007	26	رغل امريكي	<i>Atriplex halimus</i>				
S008	26	رغل استرالي	<i>Atriplex leucoclada</i>				
S009	26	الجهنمية	<i>Bougainvillea dwarf</i>				
S010	26	الجهنمية	<i>Bougainvillea spectabilis</i>				
S011	26	بونسيانا جيليسي	<i>Caesalpinia gilliesii</i>				
S012	26	سيزالينا احمر	<i>Caesalpinia pulcherrima</i>				
S013	27	الأرطى	<i>Calligonum comosum</i>				
S014	27	فرشاة الزجاج	<i>Callistemon viminalis</i>				
S015	27	لصف شفايح	<i>Capparis spinosa</i>				
S016	27	كاسيا جلوكا	<i>Cassia Glauca</i>				
S017	27	كاسيا نيموفيل	<i>Cassia Nemophila</i>				
S018	27	ملكة الليل	<i>Cestrum nocturnum</i>				
S019	28	صفصاف الصحراء	<i>Chilopsis linearis</i>				
S020	28	السندروس	<i>Citharexylum Quadrangulare</i>				
S021	28	الياسمين الزفر	<i>Clerodendrum inerme</i>				
S022	28	دودونيا الشث	<i>Dodonea viscosa</i>				
S023	28	ديورانتا ذهبي	<i>Duranta aurea</i>				
S024	28	ديورانتا اخضر	<i>Duranta repens</i>				
S025	29	ديورنتا مبرقشة	<i>Duranta variegata</i>				
S026	29	انسيليا الشجيرة الهشة	<i>Encelia farinosa</i>				
S027	29	العلندة	<i>Ephedra aphylla</i>				
































































































































































Plant info							Location						
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS							
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													



















## 2 - SHRUB

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
S028	29	المرجان الياباني	<i>Euonymus japonicus</i>	●		💧	
S029	29	جرافيليا	<i>Grevillea robusta</i>	●		💧	🌸
S030	29	الغضا	<i>Haloxylon persicum</i>	●		💧	🌸
S031	30	الرمث	<i>Haloxylon salicornicom</i>	●		💧	🌸
S032	30	الفل	<i>Jasminum sambac</i>	●		💧	🌸
S033	30	الجatroفا	<i>Jatropha integerrima</i>	●		💧	🌸
S034	30	لاجوستريميا انديكا	<i>Lagerstroemia indica</i>	●		💧	🌸
S035	30	اللائتانا كامارا	<i>Lantana camara</i>	●			🌸
S036	30	حناء	<i>Lawsonia inermis</i>	●		💧	🌸
S037	31	ليكوفيليوم	<i>Leucophyllum frutescens</i>	🌙		💧	🌸
S038	31	المرخ	<i>Leptadenia pyrotechnica</i>	●		💧	🌸
S039	31	الآس	<i>Myrtus communis</i>	●		💧	
S040	31	الدفلة	<i>Nerium oleander</i>	●		💧	🌸
S041	31	الياسمين الهندي	<i>Plumeria obtusa</i>	●		💧	🌸
S042	31	العرفج	<i>Rhanterium epapposum</i>	●		💧	🌸
S043	32	مرجان	<i>Russelia equisetiformis</i>	●		💧	🌸
S044	32	الأراك	<i>Salvadora persica</i>	●		💧	🌸
S045	32	السنا الفضي	<i>Senna artemisioides</i>	🌙		💧	🌸
S046	32	العشرق	<i>Senna italica</i>	●		💧	🌸
S047	32	السنا الغربي	<i>Senna occidentalis</i>	●		💧	🌸
S048	32	السنا الفضي قزمي	<i>senna phyllodinea</i>	🌙		💧	🌸
S049	33	التيكوما الصفراء	<i>Tecoma stans</i>	●		💧	🌸
S050	33	التيكوماريا	<i>Tecomaria capensis</i>	●		💧	🌸
S051	33	الدفلة الصفراء	<i>Thevetia peruviana</i>	●		💧	🌸
S052	33	كف مريم	<i>Vitex agnus-castus</i>	●		💧	🌸
S053	33	كف مريم أحمر	<i>Vitex trifolia purpurea</i>	●		💧	
S054	33	كف مريم مبرقش	<i>Vitex trifolia variegata</i>	🌈		💧	

























































Plant info							Location				
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS					
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### 3 - CLIMBERS

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
C001	34	انتيجنون- المرجان المتسلق	<i>Antigonon leptopus</i>	●			
C002	34	الفيل الزاحف-سلك التلفون	<i>Argyrea nervosa</i>	●			
C003	34	الجهنمية	<i>Bougainvillea glabra</i>	●			
C004	34	طربوش الملك	<i>Clerodendrum splendens</i>	●			
C005	34	الكتلة الزرقاء	<i>jacquemontia pentantha</i>	●			
C006	34	الياسمين البلدي	<i>Jasminum officinale</i>	●			
C007	35	الياسمين الوردي	<i>Jasminum polyanthum</i>	●			
C008	35	الياسمين الأحمر- الهندي	<i>Quisqualis indica</i>	●			
C009	35	الكرمة المكسيكية	<i>Senecio confusus</i>	●			




































































































































































Plant info							Location				
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS					
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## 4 - GROUND COVER

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
G001	36	التيرنانثيرا	<i>Alternanthera versicolor</i>	●		💧	
G002	36	زهرة الشمس	<i>Aptenia cordifolia</i>	●		💧	
G003	36	نقد	<i>Anvillea garcini</i>	●		💧	🌸
G004	36	الشيح	<i>Artemisia sieberi</i>	●		💧	
G005	36	زهر الهواء الخشن	<i>Asparagus densiflorus</i>	●		💧	
G006	36	كانا	<i>Canna indica</i>	●		💧	
G007	37	كاريسا	<i>Carissa green carpet</i>	●		💧	🌸
G008	37	كاريسا	<i>Carissa grandiflora</i>	●		💧	🌸
G009	37	الجازانيا الفضي صنف لوكلاينا	<i>Gazania leucolaena</i>	●		💧	🌸
G010	37	ايبوما بالماتا	<i>Ipomea palmata</i>	●		💧	🌸
G011	37	ايبوما ظلف الماعز	<i>Ipomea pes caprae</i>	●		💧	🌸
G012	37	اريسين	<i>Iresine herbstii</i>	●		💧	
G013	38	زهرة فيجي	<i>Lampranthus aureus</i>	●		💧	
G014	38	ليمونيستروم	<i>Limoniastrum monopetalum</i>	●		💧	
G015	38	أفحوان الأفريقي	<i>Osteospermum fruticosum</i>	●		💧	🌸
G016	38	زهرة الصباح	<i>Portulaca</i>	●		💧	
G017	38	حصا البان، إكليل الجبل	<i>Rosmarinus officinalis</i>	●		💧	
G018	38	رويلا بنفسجي	<i>Ruellia brittoniana</i>	●		💧	🌸
G019	39	رويلا قزمي بنفسجي	<i>Ruellia Dwarf</i>	●		💧	🌸
G020	39	رويلا قزمي وردي	<i>Ruellia Dwarf Pink</i>	●		💧	🌸
G021	39	رويلا قزمي أبيض	<i>Ruellia brittoniana White</i>	●		💧	🌸
G022	39	القيصوم الجبلي	<i>Santolina chamaecyparissus</i>	●		💧	🌸
G023	40	السنطوريا الفضية	<i>Senecio cineraria</i>	●		💧	
G024	40	الدلب - سيسيفيوم	<i>Sesuvium portulacastrum</i>	●		💧	
G025	40	المكحلة	<i>Setcreasea purpurea</i>	●		💧	
G026	40	الجعدة	<i>Teucrium</i>	●		💧	















































Plant info							Location				
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS					
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## 5 - Herbs

No	Page No	Arabic name	Scientific name	Plant info			
				leaves Color	SIZE	WATER REQUIREMENTS	FLOWERING
GR01	41	زنبق اسيوي	<i>Crinum asiaticum</i>				
GR02	41	حشيشة الليمون	<i>Cymbopogon citratus</i>				
GR03	41	الضعة	<i>Lasiurus indicus</i>				
GR04	41	الكادي	<i>Pandanus sanderi</i>				
GR05	42	الثمام	<i>Panicum turgidum</i>				
GR06	42	الحلفا احمر	<i>Pennisetum Rubra</i>				
GR07	42	الحلفا اخضر	<i>Pennisetum Setaceum</i>				



Plant info							Location						
GROWTH RATE	SUNLIGHT EXPOSURE	SALINITY	SUSTAINABILITY	FROST	SPIKY PLANTS	UTILITIES AFFECTED BY ROOTS							
													
													
													
													
													
													
													

Author info:

For any Further information about the manual please contact

Royal Commission For Riyadh City

Green Riyadh

Email: [monlaa@rcrc.gov.sa](mailto:monlaa@rcrc.gov.sa)

00966508541739

011-8021399

